REMARKS

Reconsideration and allowance of the subject application in view of the following remarks is respectfully requested.

Applicant appreciatively notes that claims 8, 9, 13 and 15-17 were objected to as being dependent upon a rejected base clai8m, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-7, 10-12, 14 and 18-19 are rejected under 35 USC 102(b) as being anticipated by Lennen (Pat. No. 5,689,271) or LaPadula et al. (Pat. No. 5,535,237) or Hurd (Pat. No. 4,578,678). Applicant respectfully traverses this rejection.

Lennen and LaPadula et al. do not teach a satellite-based positioning receiver with correction of inter-satellite cross-correlation errors. Lennen and LaPadula et al. disclose classical correlation path used in a satellite-based positioning receiver. Claim 1 requires a carrier correlation path between the signal received and two respective local quadratures carriers and a code correlation path based on the signal output by the in-phase and quadrature carriers correlation path with local codes of the satellite received.

In summary, the applied patents do not teach the use of supplementary correlation channels.

The invention is based on the use of additional correlation channels over and above the correlation channel of the signal received from a satellite so as to estimate in real time the cross-correlation errors, code-wise and carrier-wise, between the satellite concerned and any other satellite which is tracked; moreover, on other channels and the position of the code and phase of whose carrier is therefore also known. These estimated errors may thus be corrected very simply in the tracking loops.

As recited in claim 4, the receiver of the invention comprise N receptions subsets S_i, each subset S_i having the correlator channel C_{ii} of the signal of the satellite receive of order I and N-1 and additional correlator channels C_{i1}, C_{i2},....C_{iN}.

In cited documents, the cross-correlation is used to describe a classical operation of correlation between the received signal and the local signals performed in the receiver. Accordingly, the anticipation rejection should be withdrawn.

All objections and rejections having been addressed, it is respectfully submitted that the present application should be in condition for allowance and a Notice to that effect is earnestly

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solicited.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

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